

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.:
206.1004US

SERIAL NO.: 10/657,657

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Emil CIURCZAK, et al

FILING DATE:
September 8, 2003GROUP:
3736

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>h</i>	AA	5	5	0	7	2	8	8	07/08/97	Bocker, et al.	128	693	
	AB	20	02	01	23	6	7	1	09/05/02	Haaland	600	300	
	AC	5	0	7	0	8	7	4	12/10/91	Barnes, et al.	128	633	
	AD	5	3	4	8	0	0	3	09/20/94	Caro	128	633	
	AE	5	2	4	3	4	6	5	09/07/93	Fein	359	636	
	AF	6	0	4	5	5	0	2	04/04/00	Eppstein, et al.	600	306	
	AG	6	1	5	9	1	4	7	12/12/00	Lichter, et al.	600	300	
	AH	5	5	6	9	1	8	6	10/29/96	Lord, et al.	604	67	
<i>h</i>	AI	20	02	00	95	0	7	5	07/18/02	Madarasz, et al.	600	310	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>h</i>	AJ	Hamington, P.C.; "Temperature-Constrained Backpropagation Neural Networks," Analytical Chemistry, vol. 66, No. 6, pp. 802-807(1004).
<i>h</i>	AK	Savitsky, A and Golay, Marcel J.E.; "Smoothing and Differentiation of Data by Simplified Least Squares Procedures," Analytical Chemistry, vol. 36, No. 8, pp. 1627-1640 (1964).
<i>h</i>	AL	Osborne, B.G., Fearn, T. And Hindle, P.H.; "Practical NIR Spectroscopy, With Applications in Food and Beverage Analysis," 2.sup.rd Ed, Longman Scientific and Technical, pp. 114-116(1993)
<i>h</i>	AM	Draper, N. And Smith, H.; "Chapter 14 Dummy Variables," Applied Regression Analysis, 3.sup.rd Ed, pp. 299-324(1998).
<i>h</i>	AN	Mark, H.; "Use of Mahalanobis Distances to Evaluate Sample Preparation Methods for Near-Infrared Reflectance Analysis," Analytical Chemistry, vol. 59, No. 5, pp. 790-795 (Mar. 1, 1987).
<i>h</i>	AO	Mark, H.; "Normalized Distances for Qualitative Near-Infrared Reflectance Analysis," Analytical Chemistry, vol. 58, No. 2 pp. 379-384 (1986).

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): Emil CIURCZAK, et al.			
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
2	AP	20 04 00 12 7 8 1	01/22/04	Gehrlein, et al.	356	328	
	AQ	5 0 6 8 5 3 6	11/26/91	Rosenthal	250	341	
	AR	6 7 5 0 3 6	05/28/01	C.S. Watins			
	AS	4 7 6 6 5 5 1	08/88	Begley			
	AT	4 9 9 1 7 2 8	02/90	Hutchison			
	AU	4 9 7 5 5 8 1	12/90	Robinson, et al.			
	AV	5 6 0 9 2 3 0	04/91	Hutchison			
	AW	5 0 2 8 7 8 7	07/91	Rosenthal, et al.			
	AX	5 0 8 8 5 3 6	11/91	Rosenthal			
	AY	5 0 7 8 8 7 4	12/91	Barnes, et al.			
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						YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
Σ	AZ	Mark, H. And Tunnell, D.; "Qualitative Near-Infrared Reflectance Analysis Using Mahalanobis Distances," Analytical Chemistry, vol. 57, No. 7, pp. 1446-1456 (June. 1985).					
Σ	BA	Honigs, D.E., Kieftje, G.M., Mark, H.L., Hirschfeld, T.B.; "Unique-Sample Selection via Near-Infrared Spectral Subtraction," Analytical Chemistry, vol. 57, No. 12, pp. 2299-2303 (Oct. 1985)					
Σ	BB	Conway, J.M., Norris, K.H., Bodwell, C.E.; "A new approach for the estimation of body composition: infrared interactance," the American Journal of Clinical Nutrition Vol 40, pp. 1123-1130 (1984).					
Σ	BC	Peuchant, E., Salles, C., Jensen, R.; "Determination of Serum Cholesterol by Near-Infrared Reflectance Spectrometry," Analytical Chemistry, vol. 59, No. 14, pp. 1816-1819 (Jul. 15, 1987).					
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Σ				9/29/04			
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<i>2</i>	BD	5	0	7	7	4	7	6	12/91	Rosenthal			
	BE	5	0	3	6	2	2	8	02/92	Rosenthal, et al.			
	BF	5	1	1	9	8	1	9	06/92	Thomas			
	BG	5	1	2	1	3	3	8	06/92	Lodder			
	BH	5	1	3	7	0	2	3	08/92	Mendelson, et al.			
	BF	5	1	3	9	9	2	3	08/92	Stanley, et al.			
	BJ	5	1	4	0	9	8	5	08/92	Schroeder, et al.			
	BK	5	2	0	4	5	3	2	04/93	Rosenthal			
	BL	5	2	0	6	7	0	1	04/93	Taylor, et al.			
	BM	5	2	2	3	7	1	4	06/93	Maggard			
	BH	5	2	2	3	7	1	5	06/93	Taylor			
<i>2</i>	BO	5	2	4	2	8	0	2	09/93	Richardson, et al.			

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													YES	NO

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<i>2</i>	BP	Small, G.W., Arnold, M.A., Marquardt, LA.: "Strategies for Coupling Digital Filtering with Partial Least-Squares Regression: Application to the Determination of Glucose in Plasma by Fourier Transform Near-Infrared Spectroscopy," <i>Analytical Chemistry</i> , vol. 65, pp. 3279-3289 (1993).
<i>2</i>	BQ	Krugger W.G., et al., "Near-Infrared Reflectance Determination to Fat, Protein, and Moisture in Fresh Meat," <i>J. Assoc. Off. Anal. Chem.</i> , vol. 64, No. 3, pp. 692-696 (1981).
<i>2</i>	BR	Arnold, M.A. "Motivation for Developing Optical Sensors for Blood Electrolyte Measurement"; <i>Clinical Chemistry</i> , vol. 37, No. 8, pp. 1319-1320 (1991).
<i>2</i>	BS	Shenglian Pan, et al., "Near-Infrared Spectroscopic Measurement of Physiological Glucose Levels in Variable Matrices of Protein and Triglycerides", <i>Anal. Chem.</i> , vol. 68, No. 7, pp. 1124-1135 (Apr. 1, 1996).
<i>2</i>	BT	Marquardt, Lois A., et al., "Near-Infrared Spectroscopic Measurement of Glucose in a Protein Matrix", <i>Analytical Chemistry</i> , vol. 65, No. 22, pp. 3271-3278 (Nov. 15, 1993).

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	BU	5 2 4 3 5 4 6	09/93	Maggard			
	BV	5 2 5 2 8 2 9	10/93	Nygaard, et al.			
	BW	5 2 5 8 8 2 5	11/93	Reed, et al.			
	BX	5 2 6 7 1 5 1	11/93	Ham, et al.			
	BY	5 2 6 7 1 5 2	11/93	Yang, et al.			
	BZ	5 2 9 9 1 3 8	03/94	Fiori, et al.			
	CA	5 3 0 7 2 6 3	04/94	Brown			
	CB	5 3 1 3 9 4 1	05/94	Braig, et al.			
	CC	5 3 4 3 0 4 4	08/94	Sjaunja, et al.			
	CD	5 3 4 8 0 0 2	09/94	Caro			

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							YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CE	Arnold, Mark A., et al., "Determination of Physiological Levels of Glucose in an Aqueous Matrix with Digitally Filtered Fourier Transform Near-Infrared Spectra", Analytical Chemistry, vol. 62, No. 14, pp. 1457-1464 (Jul. 15, 1990).
	CF	Zee, Van Der P., et al. "Simulation of the Point Spread Function for Light in Tissue by a Monte Carlo Method," Department of Medical Physics and Bioengineering, University College Hospital, Shropshire House, Capper Street, London WC1E 6JA, U.K., pp. 179-191.
	CG	Takada, M., et al. "Non-Invasive Near-Infrared Measurements of Human Arm Tissue In Vivo," R&D Engineering-Spectrophotometric Instrument, Analytical Instrument Division, Shimadzu Corporation, Nakagyo-ku, Kyoto 604, and "Biophysics Division, Research Institute of Applied Electricity, Hokkaido University, Sapporo 060, Japan., pp. 301-304.
	CH	Heise, H.M., et al. "Noninvasive Blood Glucose Sensors Based on Near-Infrared Spectroscopy", Artif Organs, vol. 18, No. 6, pp. 439-447 (Nov. 6, 1994).

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*EXAMINER INITIAL	CI	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
2	CI	5	3	4	8	0	0	3	09/94	Caro	X	X	X	
	CJ	5	3	4	9	1	8	8	09/94	Maggard				
	CK	5	3	4	9	1	8	9	09/94	Maggard				
	CL	5	3	6	0	9	7	2	11/94	DiFoggio, et al.				
	CM	5	3	6	1	7	5	8	11/94	Hall, et al.				
	CN	5	3	6	2	3	0	7	11/94	Guy, et al.				
	CO	5	3	7	0	1	1	4	12/94	Wong, et al.				
	CP	5	3	7	9	2	3	8	01/95	Stark				
4	CQ	5	3	7	9	7	6	4	01/95	Barnes, et al.	X	X	X	
	CR	5	3	8	3	4	5	2	01/95	Buchert				
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													YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
2	CS	Glaister, D.H., "Current and Emerging Technology in G-Loc Detection: Noninvasive Monitoring of Cerebral Microcirculation Using Near Infrared", Aviation, Space, and Environmental Medicine, pp. 23-28 (Jan. 1988).												
	CT	Burfeindt, J., et al., "Angewandte optische Untersuchungen im nahen Infrarot-und Rotbereich an Humanvollblut; Anwendungsbeispiele", Biomedizinische Technik Band 30, Heft 1-2/1985, pp. 18-23.												
	CU	Muller, U.A., et al., "Non-invasive Blood Glucose Monitoring by Means of Near Infrared Spectroscopy: Methods for Improving the Reliability of the Calibration Models," The International Journal of Artificial Organs, vol. 20, pp. 285-290 (Nov. 5, 1997).												
	CV	Arnold, Mark A., "Non-invasive Glucose Monitoring", Current Opinion in Biotechnology, 1996, 7:46-49.												
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2										Thalay				
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E	CW	5 4 3 3 1 9 7	07/95	Stark	X		
	CX	5 4 3 5 3 9 9	07/95	Thomas, et al.			
	CY	5 4 4 5 6 8 1	08/95	Gether, et al.			
	CZ	5 4 5 8 2 5 2	10/95	Vari, et al.			
	DA	5 4 5 9 3 1 7	10/95	Small, et al.			
	DB	5 4 5 9 8 7 7	10/95	Kowalski, et al.			
	DC	5 4 8 1 4 7 6	01/96	Windig			
	DD	5 4 9 8 8 7 5	03/96	Obremski, et al.			
A	DE	5 5 1 2 7 5 1	04/96	Murray, Jr., et al.			
	DE	5 5 1 5 8 4 7	05/96	Braig, et al.			
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						YES	NO
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
A	DG	Eggert, Hans R., et al., "Optical Properties of Human Brain Tissue, Meninges, and Brain Tumors in the Spectral Range of 200 to 900 nm", <i>Neurosurgery</i> , vol. 21, No. 4, pp. 459-464 (1987).					
B	DH	Giannini, Ivo, et al., "Rat Brain Monitoring by Near-Infrared Spectroscopy: An Assessment of Possible Clinical Significance" <i>Physiol. Chem. Phys.</i> , 14, pp. 295-305 (1982).					
C	DI	Israel, Richard G., et al., "Validity of a Near-Infrared Spectrophotometry Device for Estimating Human Body Composition", <i>Research Quarterly for Exercise and Sport</i> , vol. 60, No. 4, pp. 379-383 (1989).					
D	DJ	Blazek, V., "Verhalten der menschlichen Haut gegenüber elektromagnetischer Strahlung im Sichtbaren Und Nahen IR-Bereich", <i>Z. Rechtsmedizin</i> 77, 91-103 (1976).					
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E				9/25/04			
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														YES	NO	
Z	DK	5	5	5	1	4	2	2	09/96	Simonsen, et al.						
	DL	5	5	6	8	4	0	0	10/96	Stark, et al.						
	DM	5	6	7	6	5	4	4	11/96	Rosenthal						
	DN	5	5	8	2	1	6	8	12/96	Samuels, et al.						
	DO	5	6	0	2	7	5	5	02/97	Ashe, et al.						
	DP	5	5	0	6	1	6	4	02/97	Price, et al.						
	DQ	5	6	1	0	8	3	6	03/97	Alsmeyer, et al.						
	DR	5	6	1	8	6	7	2	04/97	Braig, et al.						
	DS	5	6	3	8	8	1	0	06/97	Kiani-Azarbayjany, et al.						
	DT	5	6	4	1	9	6	2	06/97	Perry, et al.						
	DU	5	6	5	5	5	3	0	02/97	Messerschmidt						
	DV	5	6	5	7	7	5	4	08/97	Rosenewalg						
	DW	5	5	6	6	9	5	0	09/97	Buchert						
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														YES	NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)																
h	DX	Van Toorenbergen, A.W., et al., "Measurement of Total Serum Protein by Near-Infrared Reflectance Spectroscopy," J. Clin. Chem. Clin. Biochem., vol. 26, No. 4, pp. 209-211(1988).														
L	DY	Ciurczak, E.W., et al., "Chapter II.B.2 Identification of Actives in Multicomponent Pharmaceutical Dosage Forms Using Near-Infrared Reflectance Analysis," Molecular Spectroscopy Workbench, pp. 89-109, John Wiley & Sons, Inc. (1998).														
2	DZ	Ciurczak, E.W., et al., Chapter II.B.8 Analysis of Solid and Liquid Dosage Forms Using Near-Infrared Reflectance Spectroscopy Molecular Spectroscopy Workbench, pp. 143-149, John Wiley & Sons, Inc. (1998).														
2	EA	Ciurczak, E.W. et al., "Chapter II.C.1 Chemometrics: A Powerful Toolbox For UV/VIS Spectroscopy," Molecular Spectroscopy Workbench, pp. 165-172, John Wiley & Sons, Inc. (1998).														
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<i>h</i>	EB	5	6	6	8	3	7	3	09/97	Robbat, et al.			
	EC	5	6	8	8	3	7	4	09/97	DiFoggio, et al.			
	ED	5	6	7	2	8	7	5	09/97	Block, et al.			
	EE	5	6	7	6	1	4	3	10/97	Simonsen, et al.			
	EF	5	6	8	0	3	2	0	10/97	Helmer, et al.			
	EG	5	6	8	0	3	2	1	10/97	Helmer, et al.			
	EH	5	6	9	2	5	0	4	12/97	Essenpreis, et al.			
	EI	5	7	0	6	2	0	8	01/98	Osten, et al.			
	EJ	5	7	1	0	6	3	0	01/98	Essenpreis, et al.			
	EK	5	7	1	2	4	8	1	01/98	Welch, et al.			
<i>h</i>	EL	5	7	1	2	7	8	7	01/98	Descales, et al.			

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<i>h</i>	EM	Courczak, E.W., et al., "Chapter III.1 Purgamenta Unuit, Purgamenta Exiunt:" Molecular Spectroscopy Workbench, pp. 315-317, John Wiley & Sons, Inc. (1998).
<i>h</i>	EN	Burns, D.A., et al., "Chapter 4 Commerical NIR Instrumentation," Handbook of Near-Infrared Analysis, pp. 37-51, Marcel Dekker, Inc. (1992).
<i>h</i>	EO	Burns, D.A., et al., "Chapter 5 Process Analysis," Handbook of Near-Infrared Analysis, pp. 53-105, Marcel Dekker, Inc. (1992).
<i>h</i>	EP	Burns, D.A., et al., "Chapter 6 Data Analysis: Multilinear Regression and Principal Component Analysis," Handbook of Near-Infrared Analysis, pp. 107-158, Marcel Dekker, Inc. (1992).

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	EQ	5	7	3	0	7	1	4	03/98	Guy, et al.			
	ER	5	7	4	0	0	7	3	04/98	Bages, et al.			
	ES	5	7	4	3	2	6	2	04/98	Lepper, Jr., et al.			
	ET	5	7	4	7	8	9	6	05/98	Khalil, et al.			
	EU	5	7	5	0	9	9	4	08/98	Schlager			
	EV	5	7	5	2	5	1	2	05/98	Gozani			
	EW	5	7	7	1	8	9	1	06/98	Gozani			
	EX	5	7	8	2	7	5	5	07/98	Chance, et al.			
	EY	5	7	8	8	6	3	2	08/98	Pezzaniti, et al.			
	EZ	5	7	9	8	5	2	6	08/98	Shenk, et al.			
	FA	5	8	2	2	2	1	6	10/98	Chen, et al.			

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	FB	Burns, D.A., et al., "Chapter 7 Data Analysis: Calibration of NIR Instruments by PLS Regression," handbook of Near-Infrared Analysis, pp. 159-180, Marcel Dekker, Inc. (1992).
	FC	Burns, D.A., et al., "Chapter 10 NIR Spectroscopy Calibration Basics," Handbook of Near-Infrared Analysis, pp. 247-280, Marcel Dekker, Inc. (1992).
	FD	Burns, D.A., et al., "Chapter 13 Qualitative Discriminant Analysis," Handbook of Near-Infrared Analysis, pp. 329-363, Marcel Dekker, Inc. (1992).
	FE	Burns, D.A., et al., "Chapter 20 NIR Analysis of Pharmaceuticals," Handbook of Near-Infrared Analysis, pp. 549-563, Marcel Dekker, Inc. (1992).

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(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.:
206.1004US

SERIAL NO.: 10/657,657

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): Emil CIURCAK, et al.

FILING DATE:
September 8, 2003GROUP:
3736

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>E</i>	FF	5	8	2	3	9	5	1		10/98	Messerschmidt			
	FG	5	8	2	3	9	6	6		10/98	Buchert			
	FH	5	8	3	0	1	3	2		11/98	Robinson			
	FI	5	8	3	0	1	3	3		11/98	Osten, et al.			
	FJ	5	8	4	0	0	2	0		11/98	Heinonen, et al.	600	365	
	FK	5	3	4	1	5	2	3		11/98	Degen, et al.			
	FL	5	8	5	7	4	6	2		01/99	Thomas, et al.			
	FM	5	6	9	0	4	8	9		04/99	Elden			
	FN	5	8	0	6	1	8	8		04/99	Chou, et al.			
	FO	5	9	0	0	6	3	4		05/99	Soloman			
	FP	5	9	1	0	1	0	9		06/99	Peters, et al.			

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		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

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EXAMINER INITIALS 		DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	FQ	5	9	3	3	7	9	2	08/99	Andersen, et al.					
	FR	5	9	3	5	0	6	2	08/99	Messerschmidt, et al					
	FS	5	9	1	5	6	7	0	08/99	Khalil, et al.					
	FT	5	9	4	6	1	2	0	08/99	Pack					
	FU	5	9	4	6	6	4	0	08/99	Goodacre, et al.					
	FV	5	0	6	8	7	6	0	10/99	Phillips, et al.					
	FW	5	9	8	5	1	2	0	11/99	Cholli, et al.					
	FX	6	0	6	6	1	1	9	12/99	Soller, et al.					
	FY	6	0	4	2	0	1	9	01/00	Saby					
	FZ	6	0	1	4	5	7	7	01/00	Henning, et al.					
	GA	6	0	2	9	3	1	4	02/00	Amerov, et al.					
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		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
Z	GB	6	0	4	0	5	7	8	03/00	Main, et al.				
	GC	6	0	4	9	0	8	2	04/00	Methfessel				
	GD	6	0	6	1	5	8	2	05/00	Small, et al.				
	GE	6	0	6	4	0	6	5	05/00	Block, et al.				
	GF	6	0	6	4	8	9	7	05/00	Lindberg, et al.				
	GG	6	0	6	6	8	4	7	05/00	Rosenthal				
	GH	6	0	6	7	4	6	3	05/00	Jeng, et al.				
	GI	6	0	7	0	1	2	8	05/00	Descales, et al.				
	GJ	6	0	8	7	1	8	2	07/00	Jeng, et al.				
	GK	6	0	8	7	6	8	2	07/00	Witt, et al.				
[]	GL	6	0	9	1	8	4	3	07/00	Horesh, et al.				
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
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EXAMINER [Signature]														
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